

0570
0106

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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/963,693

DATE: 01/14/2003

TIME: 12:01:10

Input Set : N:\Crf3\RULE60\09963693.raw

Output Set: N:\CRF4\01142003\I963693.raw

1 <110> APPLICANT: Ruvkun, Gary
 2 Ogg, Scott
 3 <120> TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
 4 IMPAIRED GLUCOSE TOLERANCE CONDITIONS
 5 <130> FILE REFERENCE: 00786/351004
 6 <140> CURRENT APPLICATION NUMBER: 09/963,693
 7 <141> CURRENT FILING DATE: 2001-09-25
 9 <150> PRIOR APPLICATION NUMBER: US/09/205,658
 10 <151> PRIOR FILING DATE: 1998-12-03
 12 <150> PRIOR APPLICATION NUMBER: 08/857,076
 13 <151> PRIOR FILING DATE: 1997-05-15
 14 <150> PRIOR APPLICATION NUMBER: 08/888,534
 15 <151> PRIOR FILING DATE: 1997-07-07
 16 <150> PRIOR APPLICATION NUMBER: US98/10080
 17 <151> PRIOR FILING DATE: 1998-05-15
 18 <160> NUMBER OF SEQ ID NOS: 328
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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 33 <213> ORGANISM: Artificial Sequence
 34 <220> FEATURE:
 35 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
 36 <400> SEQUENCE: 2
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 39 <210> SEQ ID NO: 3
 40 <211> LENGTH: 20
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Artificial Sequence
 43 <220> FEATURE:
 44 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
 45 <400> SEQUENCE: 3
 46 tgatgcgaac ggcatcgat
 48 <210> SEQ ID NO: 4
 49 <211> LENGTH: 20

ENTERED

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18

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Input Set : N:\Crf3\RULE60\09963693.raw

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51 <213> ORGANISM: Artificial Sequence
52 <220> FEATURE:
53 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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59 <212> TYPE: DNA
60 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
62 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
63 <400> SEQUENCE: 5
64      ggtttaatta cccaagtttg ag                                22
66 <210> SEQ ID NO: 6
67 <211> LENGTH: 20
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
72 <400> SEQUENCE: 6
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75 <210> SEQ ID NO: 7
76 <211> LENGTH: 20
77 <212> TYPE: DNA
78 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
81 <400> SEQUENCE: 7
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87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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96 <213> ORGANISM: Artificial Sequence
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103 <211> LENGTH: 20
104 <212> TYPE: DNA

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RAW SEQUENCE LISTING

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Input Set : N:\Crif3\RULE60\09963693.raw

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107 <223> OTHER INFORMATION: Primer/probe derived from C. elegans
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112 <211> LENGTH: 5816
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117 <222> LOCATION: (1)...(5816)
118 <223> OTHER INFORMATION: n = A,T,C or G
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122      atgacgagaa tgaatattgt cagatgtcgg agacgacaca aaattttgga aaatttggaa      180
123      gaagagaatc tcggcccgag ctgctcgtcg acgacttcaa caaccgctgc caccgaagct      240
124      ctcggaacaa ccactgagga tatgaggctt aagcagcagc gaagctcgtc gcgtgccacg      300
125      gagcacgata ttgtcgacgg caatcaccac gacgacgagc acatcacaat gagacggctt      360
126      cgacttgta aaaattcgcg gacgcggcgt agaacgacgc ccgattcaag tatggactgc      420
127      tatgaggaaa acccgccatc acaaaaactt caataaatta ttcttgatt tctaaaaagt      480
128      catcaatgac gtcattaatg cttttactgc tattcgcttt tgtacagccg tgtgcctcaa      540
129      tagtcgaaaa acgatgcggc ccaatcgata ttcgaaatag gccgtgggat attaagccgc      600
130      aatggtcgaa acttggtgat ccgaacgaaa aagatttggc tggtcagaga atggtcaact      660
131      gcacagtggg ggaaggttcg ctgacaatct catttgtact gaaacacaag acaaaagcac      720
132      aagaagaaat gcatcgaaat ctacagccaa gatattccca agacgaattt atcacttttc      780
133      cgcactctacg tgaaattact ggaactctgc tcgtttttga gactgaagga ttagtgatt      840
134      tgcgtaaaat ttcccaaat cttcgtgtaa ttggaggccg ttcgctgatt caacactatg      900
135      cgctgataat ttatcgaaat ccggatttgg agatcggctt tgacaagctt tccgtaattc      960
136      gaaatggtgg tgtacggata atcgataatc gaaaactgtg ctacacgaaa acgattgatt      1020
137      ggaaacattt gatcacttct tccatcaacg atgttgtcgt tgataatgct gccgagtagc      1080
138      ctgtcactga gactggattg atgtgcccac gtggagcttg cgaagaggat aaaggcgaat      1140
139      caaagtgtca ttatttggag gaaaagaatc aggaacaagg tgtcgaaaga gttcagagtt      1200
140      gttggtcgaa caccacttgc caaaagtctt gtgcttatga tcgtcttctt ccaacgaaag      1260
141      aaatcggacc gggatgtgat gcgaacggcg atcgatgtca cgatcaatgc gtgggcggtt      1320
142      gtgagcgtgt gaatgatgcc acagcatgcc acgctgcaa gaatgtctat cacaagggaa      1380
143      agtgtatcga aaagtgtgat gtcacctgt accttctcct tcaacgtcgt tgtgtgacct      1440
144      gtgagcagtg tctgcagctg aatccggtgc tctogaacaa aacagtgcct atcaaggcga      1500
145      cggcaggcct ttgctcgat aaatgtcccg atggttatca aatcaaccgc gatgatcatc      1560
146      gagaatgccg aaaatgcgtt ggcaagtgtg agattgtgtg cgagatcaat cacgtcattg      1620
147      atacgtttcc gaaggcacag gcgatcaggc tatgcaatat tattgacgga aatctgacga      1680
148      tcgagattcg cggaaaacag gattcgggaa tggcgtccga gttgaaggat atatttgca      1740
149      acattcacac gatcaccggc tacctgttgg tacgtcaatc gtcaccgttt atctcgttga      1800
150      acatgttccg gaatttacga cgtattgagg caaagtcact gttcagaaat ctatatgcta      1860
151      tcacagtttt tgaaaatccg aatttaaaaa agctattcga ttcaacgacg gatttgacgc      1920
152      ttgatcgtgg aactgtgtca attgccaata acaagatgtt atgcttcaag tatatcaagc      1980
153      agctaattgtc aaagttaa ataccactcg atccgataga tcaatcagaa gggacaaatg      2040
W--> 154      gtgagaaggn aatctgtgag gatatggcaa tcaacgtgag catcacagcg gtcaacgcgg      2100

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156	tcggctacga	gctcttcttc	aaagaagtcc	cacgaatcga	tgagaacatg	acgatcgaag	2220
157	aggatcgaag	tgcgtgtgtc	gattcgtggc	agagtgtctt	caaacagtac	tacgagacgt	2280
158	cgaacggtga	accgaccccg	gacattttta	tggatattgg	accgcgcgag	cgaattcggc	2340
159	cgaatacgct	ctacgcgtac	tatgtggcga	cgcagatggg	gttgcattgcc	gggtcgaaga	2400
160	acgggtgtatc	gaagattggg	tttgtgagga	cgagctacta	tacgcctgat	cctccgacgt	2460
161	tggcactatgc	gcaagtctgat	tcggacgcta	ttcatattac	gtgggaagcg	ccgctccaac	2520
162	cgaacggaga	cctcacgcat	tacacaatta	tgtggcgtga	gaatgaagtg	agcccgtacg	2580
163	aggaagccga	aaagttttgt	acagatgcaa	gcaccccgcg	aaatcgacaa	cgcacgaaag	2640
164	atccgaaaga	gacgattgta	gccgataagc	cagtcgatat	tccgtcatca	cgtaccgtag	2700
165	ctccgacact	tttgactatg	atgggtcacg	aagatcagca	gaaaacgtgc	gctgcaacgc	2760
166	ccggttggtg	ttcgtgttcg	gctatcgaag	aatcatcgga	acagaacaag	aagaagcgac	2820
167	cggatccgat	gtcggcgatc	gaatcatctg	catttgagaa	taagctgttg	gatgagggtt	2880
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181	ctgtggaaat	cattctcggc	atgcttctcg	tctttttgat	tttaatgtca	attgccgggt	3720
182	gtataatcta	ctactacatt	caagtacgct	acggcaaaaa	agtgaagct	ctatctgact	3780
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196	cccggaaaggt	tatcaagaag	cccgaatgtt	gtgaaaacta	ttggtataag	gtgatgaaaa	4620
197	tgtgctggag	atactcacct	cgggatcgtc	cgacgttcct	ccagctcggt	catcttctag	4680
198	cagctgaagc	ttcaccagaa	ttccgagatt	tatcatttgt	cctaaccgat	aatcaaatga	4740
199	tccttgacga	ttcagaagca	ctggatcttg	atgatattga	tgatactgat	atgaatgatc	4800
200	aggttgctga	ggtggcaccg	gatgttgaga	acgtcgaggt	tcagagtgat	tcggaacgtc	4860
201	ggaatacggg	ttcaataaccg	ttgaaacagt	ttaagacgat	ccctccgatc	aatgcgacga	4920
202	cgagtcattc	gacaatatcg	attgatgaga	caccgatgaa	agcgaagcag	cgagaaggat	4980
203	cgctggatga	ggagtacgca	ttgatgaatc	atagtggagg	tccgagtgat	gcggaagttc	5040

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DATE: 01/14/2003

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Input Set : N:\CrF3\RULE60\09963693.raw

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205 cgcgacgaaa tactggtgca tcaacatcaa gttacacagg tggatggtcca tattgcctaa 5160
206 caaatcgtagg tgggttcaaat gaacgaggag ccggtttcgg tgaagcagta cgattaactg 5220
207 atggtggtgg aagtggacat ttaaatgatg atgattatgt tgaaaaagag atatcatcca 5280
208 tggatacgcg ccggagcacg ggcgcctcga gctcttccta cggatggtcca cagacgaatt 5340
209 ggagtggaaa tcgtggtgcc acgtattata cgagtaaagc tcaacaggca gcaactgcag 5400
210 cagcagcagc agcagcagct ctccaacagc aacaaaatgg tggatcaggc gatcgattaa 5460
211 ctcaactacc cggaactgga catttacaat cgacacgtgg tggacaagat ggagattata 5520
212 ttgaaactga accgaaaaat tatagaaata atggatctcc atcgcgaaac ggcaacagcc 5580
213 gtgacatttt caacggacgt tcggctttcg gtgaaaatga gcatctaata gaggataatg 5640
214 agcatcatcc acttgtctga aacccccaaa aaatcccgcc tcttaatta taaattatct 5700
215 cccacattat catactctta cagcaatata ggattttttt tcagattttt tctgaaaaat 5760
216 tctgaataat ttaccatcat ttttcaaata tctgtatttt tttttgttat tacccc 5816
218 <210> SEQ ID NO: 12
219 <211> LENGTH: 1724
220 <212> TYPE: PRT
221 <213> ORGANISM: Caenorhabditis elegans
222 <400> SEQUENCE: 12
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224 1 5 10 15
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226 20 25 30
227 Pro Trp Asp Ile Lys Pro Gln Trp Ser Lys Leu Gly Asp Pro Asn Glu
228 35 40 45
229 Lys Asp Leu Ala Gly Gln Arg Met Val Asn Cys Thr Val Val Glu Gly
230 50 55 60
231 Ser Leu Thr Ile Ser Phe Val Leu Lys His Lys Thr Lys Ala Gln Glu
232 65 70 75 80
233 Glu Met His Arg Ser Leu Gln Pro Arg Tyr Ser Gln Asp Glu Phe Ile
234 85 90 95
235 Thr Phe Pro His Leu Arg Glu Ile Thr Gly Thr Leu Leu Val Phe Glu
236 100 105 110
237 Thr Glu Gly Leu Val Asp Leu Arg Lys Ile Phe Pro Asn Leu Arg Val
238 115 120 125
239 Ile Gly Gly Arg Ser Leu Ile Gln His Tyr Ala Leu Ile Ile Tyr Arg
240 130 135 140
241 Asn Pro Asp Leu Glu Ile Gly Leu Asp Lys Leu Ser Val Ile Arg Asn
242 145 150 155 160
243 Gly Gly Val Arg Ile Ile Asp Asn Arg Lys Leu Cys Tyr Thr Lys Thr
244 165 170 175
245 Ile Asp Trp Lys His Leu Ile Thr Ser Ser Ile Asn Asp Val Val Val
246 180 185 190
247 Asp Asn Ala Ala Glu Tyr Ala Val Thr Glu Thr Gly Leu Met Cys Pro
248 195 200 205
249 Arg Gly Ala Cys Glu Glu Asp Lys Gly Glu Ser Lys Cys His Tyr Leu
250 210 215 220
251 Glu Glu Lys Asn Gln Glu Gln Gly Val Glu Arg Val Gln Ser Cys Trp
252 225 230 235 240
253 Ser Asn Thr Thr Cys Gln Lys Ser Cys Ala Tyr Asp Arg Leu Leu Pro

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/963,693

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Input Set : N:\Crf3\RULE60\09963693.raw
Output Set: N:\CRF4\01142003\I963693.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; N Pos. 2050
Seq#:31; N Pos. 3,12,15,18,21
Seq#:32; N Pos. 7,8,9,12,15
Seq#:115; Xaa Pos. 4,5,11,12,16,37,38,39,41,42,43,47
Seq#:126; Xaa Pos. 20,21,22
Seq#:127; Xaa Pos. 20,21,22
Seq#:128; Xaa Pos. 20,21,22
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Seq#:130; Xaa Pos. 20,21,22
Seq#:131; Xaa Pos. 20,21,22
Seq#:132; Xaa Pos. 20,21,22
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Seq#:135; Xaa Pos. 20,21,22
Seq#:136; Xaa Pos. 20,21,22
Seq#:137; Xaa Pos. 20,21,22
Seq#:138; Xaa Pos. 20,21,22
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Seq#:141; Xaa Pos. 20,21,22
Seq#:142; Xaa Pos. 20,21,22
Seq#:143; Xaa Pos. 20,21,22
Seq#:144; Xaa Pos. 20,21,22
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Seq#:151; Xaa Pos. 20,21,22
Seq#:152; Xaa Pos. 20,21,22
Seq#:153; Xaa Pos. 20,21,22
Seq#:238; Xaa Pos. 84,85,86,87,88,89,90,91,92,93,94,95,96
Seq#:304; Xaa Pos. 4,5
Seq#:323; Xaa Pos. 2,3,5,6

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\09963693.raw

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L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:2040
L:745 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:758 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:3186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:3190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:32
L:3396 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:16
L:3412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127 after pos.:16
L:3428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:128 after pos.:16
L:3444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:129 after pos.:16
L:3460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130 after pos.:16
L:3476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131 after pos.:16
L:3492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:16
L:3508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133 after pos.:16
L:3524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:134 after pos.:16
L:3540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:135 after pos.:16
L:3556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:16
L:3572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:16
L:3588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138 after pos.:16
L:3604 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:139 after pos.:16
L:3620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:16
L:3636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:141 after pos.:16
L:3652 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:142 after pos.:16
L:3668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143 after pos.:16
L:3684 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:3700 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:3716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:3732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:3748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:3764 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16
L:3780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:16
L:3796 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:151 after pos.:16
L:3812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:16
L:3828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:16
L:5602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:238 after pos.:80
L:6423 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:304 after pos.:0
L:6942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:323 after pos.:0